CLAIMS

1. A swash plate compressor comprising:

a swash plate locked to a drive shaft, which rotates together with said drive shaft;

a shoe that slidably contacts said swash plate;

a piston slidably disposed inside a bore defining a compression space; and

a shoe pocket formed as an integrated part of said piston, which slidably fits with said shoe, characterized in;

that a beveled portion is formed at an edge of an opening at said shoe pocket.

2. A swash plate compressor according to claim 1, characterized in;

that a recessed portion of said shoe pocket, at which said shoe is received is formed so as to achieve a constant curvature and a projecting portion of said shoe, which faces opposite said recessed portion, is formed so as to achieve at least two different curvatures; and

that a tangent point of said beveled portion and said recessed portion is set within a range over which said projecting portion and said recessed portion achieve contact with each other.

3. A swash plate compressor according to claim 2,

characterized in;

that said beveled portion is constituted with a curved surface achieving a constant curvature which is smaller than the curvature of said recessed portion.

4. A swash plate compressor according to claim 2, characterized in;

that said beveled portion is constituted with a curved surface having at least two different curvatures.

5. A swash plate compressor according to claim 2, characterized in;

that said beveled portion is constituted with a flat surface.

6. A swash plate compressor according to claim 3 or 4, characterized in;

that the angle formed by a tangential line of said recessed portion and a tangential line of said beveled portion at said tangent point is equal to or smaller than 45°.

7. A swash plate compressor according to claim 5, characterized in;

that the angle formed by a tangential line of said recessed portion and said beveled portion at said tangent point is equal to or smaller than 45°.